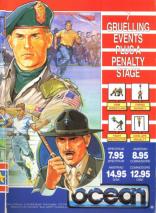
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Ry Les Allon

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too of the Turbo Cruscher was not a difficient on they should have been to reason for this in that the charaments of the the program ing crandood, in not empty.

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) Reset the computer if required.

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5 LOAD "MEMI" 8.2 (May 1987).

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The program works by calling the individual ROM residues provided in suring or loading a program instead comply using the standard REFENAL routines. This allows caused beaded to be certainly softwart to the control control and the control of the



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BASIC pagazara which POREs
reachine code program ion more
from 50000 to 3500C and these is
thin church of memory so date, it
source need to make the date
indicated in the linking in the pope
PRELIDCATOR. It is this on
program that in mod. For the Beprogram is rea, it in necessary

initially more up the start of BAS so: that there is more for the a program. This needs so be desched the program is typed in and is ushin by typing: "POKEALL FORE44,32: FORES1 @NEW!

These is an error shock on each line, but care should be taken to-sare a easy of the BASIC program before it is RUN.

.....

HALOCATOR from sage or dis When it has basiled, resting it is necessarily as a second of the contense defines and is very single to se the available upon as range of the second of the content of the conserved the load and data way. For it Load options you are presupped for enser inputs and for sage and a sea basil, the did and sees sear and at addresses are desplayed. For the Seoption years in property for the seater of the content of the contention you that you require to serve as the last address due you what it is reboal as Appare, after swing, for a forbid as Appare, after swing, for a forphysic.

Empirical. See Daing on page DEVASTATING GAMES. DIFFICULT GAMES. DEVIOUS GAMES. DEATH DEFYING GAMES. DISCOVERING GAMES.

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Tech Troubles

Don't suffer in silence. Let Tim Arnot help you out with

By Tim Arnot

Dear Tim This might smoul Ekr a new but we are doping you will notes our of our problems is

sofer one of our problems that is come up against. Could you tell one what is require over a PAT about disk, above with 64. I acclaration that a couple of

scrap and we have solved this problem.

Mask Pewell, Shrewshay College of
Arts & Technology.

Hi Mark.

Hi Mack, Connecting a PET dual disk drive to a Communities of its not quite as exceptionaries of its not quite as exceptionaries of any of the Arthur an obvious difference in that the communities of the of its abprision, and the connector on the disk drive in a 56 pet HZ sucket. The main reasons for this in that the PET used as

BILE-H Bestface to with as the persphends, whereas the 4d has a propolary social has. The 9FUT as propolary social has. The 9FUT as BILET cands applied with the divide looks like it might play that the user, per on the back of the 4d, however, worn though it file, it will not work. It 1992, when Commoders were designing the VTC-20 IDE forecasses to the 4ds, they decided they needed to not come and use readed writing calling for the persphenal insurface.

sole supplier of PET to IEEE gabin had just wen a large defence contract and couldn't supply for severa months. So, a fast senial cubic war

invented, that still used the III produced for sufficience compatible Unfortunately, there were filter to of the major chips, and fared with those of Jack. Transiers wrant-showing the system down chooses the engineers chose the latter operand whiteful quiety.

After the labels y lesson, built.

your problem? For will most I content the actual has format into perallel HEE format. There is except by no do the other than I have no do the other than I having a preprint; into face. The other has a being a proprint; into face. The other than I have no seen a second that the face for the third proprint of the other lates of the content of the con

Done Tim.
Can you please help? I have just bone
a Same parable 7.3: for my Cot
would like so have bone in converte 2.3 just 2.6 CRF plag from the T.V.
the analysishes uncless on my Cot,
the same sometime in whom at pass and,
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the same sometim is whom at pass and,
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communities from the 2.6 CRF plag or a
Serve Nevents. Scheme Medice.

shipped with a 5 pin A/V socker

II. Issue ones have the 8 pin socket.

Its pinout for the 8 pin version is

I - N/C
2 - Andre U/P
3 - N/C
4 - Andre GND
5 - Bus GND
6 - Andre U/P

Green GND N/C Green N/C End GND N/C End GND N/C End Fank PAL GND

- Rud
- Fast Blank
- Pail GND
- Fast Blank
- N/C
- PAL
- Socces
The simplest way to oc

to connections on f at together and take t



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mility claims — so preferred one till military proper friend to a label of marriages — just the file beginner uses them as power up the analysis with the properties with the properties with the properties of the 4 WAY K BOA The best for a people in and empts a first of grings in a fifteen op-

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PANDER

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soles

















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Then feer the first connect pilet out of the hart in the other hart in the hart in the third part in a games of 1 Managar III against three comp

How to Enter-

the half is.
Study the picture can
muck with an X-the position
think the bull is.

December The Bale

> imployees of Argun Special Publications and Addiction Gas Dis restriction also applies imployees families and agents of companies. The How to Enter sections part of the rails. The Edit decision is final and no on



1 Menoger II Comprehism

Entry Coapus Nurse

Percode

Part ax Year Commidee, Football Manager II

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Typro

By P.G. Simondo

PLUS/4 UTILITY

Strike	Double Width Or Strike	Specing	Strephic Specing	Beverse Or Underline On	Neverse Or Underline	Upper Case & Gruphica	& Capit
A+38-		8-15					D-17
Costrol 1	Control	Control	Control 4	Control	Control	Control	Contro



Add or Delete

I-C-P-U-G

AMIGA BitStream

INFO MAT

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Title Reseption Supplier America, & Convel Server,

GAMES REVII

And being a real band pay now decide to try and the demons and kill them. While you are writing for show their uply beach, you readonly get caught upwary and find yourself is ancient Green, source sained somptes. There are also brasslpos - not State I spill at you, and if you shout these, either a gierz of

spit at you, and if you shoot these, eith a format (f) will be revealed which can b wrapon.

The neispens come in many forms with faces eye, but it is quite a nept, we need to do in the every powerful faces any

with home cone, but it is quite a work wrapper. However, next color it he were present il increasives which one he to below every market, and thirdly you have the prose dog, which were next, a dog has a milke dot if one you recemblance! That howeve, askead lailing any mornator stops into its path. For those light spoin a pet pack at comes in handly, which as proy how from most his agood comes in handly, which as proy how from the properties.

come in handy, and at a pricy four femore this is good will have.

Last but hind there is the wonder scapes, and a modest fine femore this little haby all bring a load squaring death only all award you, hithing all nation.

The come is that they never sound you.

This game is first class — near search, sive graphics asserts played. It's a chance that there are only three level should design, of well you can't have it al.

Lad.

Faculties:

Take: Harries: Supplies: Software Projects. Bearlians:

Complete. Allerian Annal, Windows Liverpool 1,21 337. Fel.

(1) 21 300 1 Bear of Bearling of Bearlians.



comparations. Certain Complex. they remanaged to that a speet that have been show below? Now that is not that the state of the show that the speet that the speet that the speet that the speet that the speed to the

the first forth of these facts are severed for each plager and when one colours these both that player is searced for ab the colours to the colours that a first past. It is severed to the colour that past. The manager is according to game above you text a action toping so you can either basic is glosy or safely.

action topky no you can either bank in glosy or suffer replace of an awful mintake.

The games is extendly quite good and is full of end to a action and in ideal for those who was to perfect their task before they hand for the nonemers or to go it.

Tracebbar:
Title Water Pelo, Supplier Grender Graphics, Alpha Home
N Carrer Stores, Shelfold ST 403, Yal. 027-358, 337
Machine: C 64, Prices Et. 99 (Co. 234-99 (Co.)),
Originality. 7/33. Physiolitys; 7/33, Graphics; 1/35, Falu.
6/15.



MEGA APOCAL!

of Lon the fiel of that procey gaths Chary Comthe United to the Analysis of Maya Apocalysis. But it is not considered to the Charge of the September of a sine, recopped with a space sign per sign for part of a sine, recopped with a space sign with an office of the Your section to to be did you where we man hast. Your sections to be beddy you where we man hast before, not contraw and section works for section of a first. That seems, fair to not a reset of shadoward or digital creations used in sectio.

The miles also not enable comp. part however, and the first property from a wild of their position and wilds to be completed as the property for the property from the property for the property forether property for the property for the property for the property

the imports speech and improved graphics.

Trackline:

Talle Here Apocal (nov. Supplier Messon), Harring

The Maye Apocalizar Supplier Marco & Marco & Ber Terrer, Perenny Sey, Exe Singer, BN24 6EE EAST-CLIP \$12.00 (Well), Telt 0.023 506555, Machin Craphics, E/A), Originality, 5/38, Physiolity, 7/38, 5/35



55 0: : : 2 50

LED.

has observe planets were missed, huge quarties the materials were discovered, predering missean upid and disminish valueless. Heritad, market become mad priced softeness as a way only found on the trickle refere.

bitted, for large range considered users divorbed to the particular control of \$1.00, and \$

only does this game hold extremely impressive, but epity muscles the graphics and the could in infinitely layable than either of its anorston. Very highly rended.

Nor. Touchin

 Tible Rof L.E.D. Supplier: Soudqle, 8t Long Ace, Coven Gurden, London, WC2E 800. Tel: 81-855-5411, Machine CSE Price 1839 (CL) (1239) (2016)
 Originality, 37 (6. Graphics, 37 (6. Physiology, 37 (6. February))

CAPELI SINS

The latest gathe from Mentertronic in a little on the gors side. You piles a Riembo-cyce character on a minimum to taid a top strantity marshesse. Gathing sits the marshesse is no hard tash being propersing as the fifth level says in. The feestle are gazafied by all kinds of survivor building wash as semidol functioner, things greated on that of the

and the state of t

This game has no manning scentine, no growy fluid lathead more and the graphics are perly accessor—another field game? No or over seller must, through address and quite francising and for a hundred more quality or confr go wrong. But this game or your arms will full off—need I say more!

Take Rapid Fox. Supplier Harryrome. 8:00 Food Street London EC28 40%. Tel: 80-377-8800 Prior: EL99. Markinso CS4. Graphin: 5/18. Originalny: 5/10. Physiology 5/10. Falso-







Take Depth II. Supplier Firebrid Software, First Floor, 64-63 Graphics: 5/10. Physiolity: 5/10. Originalty: 5/10. Felor.



In Max 1941 the owise British home flost (minfesced by

Whenever ships meet they can engage in bards which is

Title Konerck, Supplier FSS, 452 Stoney Stunion Road. Originality: 2/15, Pleushlitty: 2/15, Graphics: 2/10, Educ-

DIZZY DICE

Von hards constitue existed - a feet machine exect to



terribe. You must select the spitch a spitent is go and at if you choose the bar, for odds against it own are fifteen to one against. The marking party sou att. Computer fruit, marking genes (all into the category as desulf-install of office or alrobol frue borbother? The white iddo behand gambling in the east it might low, coupled with the possibility of a big sine. If with non-claims movely defices the whole of the

Touchfast Take Diray Deer, Supplier, Players, 2 November House Callein Park, Albertainen, Berks Kill 4QW, Tak (4715),

Falo: Diriy. How. Supplier: Players. 2 Morepus: Homes: Calless Pres. differentiation. Berlis Ris? 4QW: Tak (87156, 27268. Prior. U.S. Originality: 3/35. Graphics: 2/15. Playability: 2/15. Value.



Who needs puraliss sendings, share-fam 3D safe, graphies and super-houses, mega groosy menie to make decard game! Well, most people seem to, except U.S. Goldstro bare convented a highly playable game which is few our may resomber. It goods by the name of Solomonic's Key

(aren't we all') and on entering Sobiesco's intent you would brough the levels aroubing all the doubly people. Yo earling god is to result the key on such level and mide this arounds this door. Each door you go through will being a chosen to your schemate god. Foliasmos's transact room As the ord of the third level you go into a bown in whose you go in enterated to act a spell on this ky. Howe-

As the end of the third level you go more a bown in where you are interacted to exact a pull of oils hay. However, it is eachter when this actually means and the melinating you many no obset. Fin addition, the careers are litered with objects, but there are many to meeting them. If I have not a reflament or can be seed to fit you find the country and the contract of themse or can be seed to fit you fittle converges that wander accurate.

the measure's fact and watch him fall to his death cyall. There are about held of Balls balls assend, which all teached, summon a fairy oblich you can set for dense. It on of these and you will get an askn man, plack indigent. You're only real help is a magic wand, which for so push the blocks).

I have been playing this game for hours (that's interesting to heart ED) and FT take it home consight and play it for hours (you've gut work to dot ED).

Well, what ours lay, lay this game or if'll be a case of spontaneous combination? Maybe.

K.E.

Tanobline
 Tales Salamaris Ery, Suppliere U.S. Gold, Univ. 27:
 Hiller Way, Melloud Biomisphini, Bir 743, Tel. 623-256
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On Field Football is the laten Arrivition game to re-ordered as a Field industrial budget game. Within the field Facilitation game to capture the enterior of the Bond cockretes and Link.

Financiald Social played between two teams of gyins.

state players captains for momes of a poor gazes. To interpretam are less to a polic, of not tilling poor emptylension and to know and ordy remote an almost manasinguosisted or player, formations and the youth movement. The policy of the property of the property of the Committee of the property of the property of the processing a small or discipler the table you find as creating? Similar deference of offensive and delivery players and with only four players you havely have the composers to except from. The quantities of the transplayers to a several granters to this, by the discipline is the transplayer and the The gazes to further and the proposers the con-

Translate:
Take the Freid Freehalt, Supplier Freeholt, Frest Floor, 64-6
free Onfreid Store, Landon WCLA (PS, Tak 01-379 03);
Machine: Col. Phys. (1-5).



Easy Count

A nord counter for Easy Script as

By M. P. Leach

Leavy Sofiet is probably the most common wedgenesses in one or feet a surface size of the Col. One of the man probabous six orings return is found. I surface size to probably a count of the cort to probable of weeks that are it as document. If you not an account of the common of th

printer administratly exreported code, separate full or full or see the programs. Such as the driver and the driver and the processed technically minmade is removed.

words by hand. Until now that is.

Ease Count in a program that will for count the numbers of month that are in any lasty foreign this.

The program hooks for the new foreign that the numbers were for the new foreign than the new foreign that the new foreign the new foreign that the new foreign the new foreign that the new foreign the new foreign the new foreign that the new foreign the new foreign that the new foreign the new foreign that the new foreign that the new foreign that the new foreign that the new foreign the new foreign that the new foreign that the new for

Getting it is

Not Enthrope on page 446



Communications Corner

Keep up to date with what's on in the communication

A 1 levin, no PCW shaw is coming to un each. These was nothing new, comes no the forth each ULL float that they are also give the comes no the forth each ULL float that they are the common that the company of the com

memoralization. Lat's have shown as that it this shall not be seen considered as a sense of effect.

Contract Development S. And S. And

and the state of t

when the gateway is being extered any

Let's Chat Microset are also working or confensacing system. The idea is

the desired see also a walking, on the control of t

abo have the option by a scrolling gate chargeable services, b been fixed yer.

Commodore Modem RIP

Companied have a problem—they as misdoard. The Commodescem is no longur in production Companie. Telescripton have rai of stock. Companie they are loc for an alternative modern for Colonians, and if it my balled that she Aliadon. Software (who mone original Companied Software) who continued to the Commodescem and they designed Companied Terminal Software.

New Look Companet

Comparet is now running

Compared full message. The expectably when it costs 4 is for the phone call only to said. The phone call should be in the phone call only in the phone call should be i

if those nover very few of that C. N.
topic criteris that nove common
old system, Partyline is now no
at the special turn-felling solinoses
a given a may no a free his. This
une the text scrade to you fan thus
of the buffering in the solinoses
is, back at what has jus-

Concentrating on the Aming software to never Computed wi 119.85. It makes fall use of lest with a windowed means updisplay, pull-down means and and sleid gadgets for commonly functions.

Finally, the pricing structure Command has

Company to the state of the company of the company

wherepen is abut, and you as serviced in comment of the comment required. West short is to the penals. The back sace with some more remembration of schul.

YORK ELECTRONIC RESEARCH
Commodore 64/Plus 4 Products
800 ASSIMENT 16/Plus 4 Products
See ASSIMENT 16/Plus 4 Products
A superior state of the state

The STEPAN, suppose FIFAN or supposed for the supposed fo

when the window y scholardood. Not sithlead video to be been designed to the benefic sittles, a more, device port indicates are not a temporary point of other which visibles the sideol device of contra during to the sideol to sideol. Prince agency.

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Budget Calc

By Simon Phillips

Budget calc is a budget wilky based. around two speculations. The first

Changing subjects and Budget Cair has the especies for it

This command embles you to move

This displays the spreadshoot you are

Getting Started

BUD SUB CREATE

BUDGET CALC PROGRAM

2500-2510 Submorine for calculating submode for actual figures.

Loading of important variables.

Landow of important variables.







Across the Board

More and more companies are producin advenuers based on well-loved board games – natch this space for the latest

By Tany Hetherington

What have, Trivial Passenis, 221B Baker Street, Oger und bezodnet in normane? The money is that along with Chen, trislin, Moreyoth, Souldella and Claudo they are part of a growing band of board games that you can have play on and street your Code.

early year COA Intellectual Classies

Classic garner yieth as whose and bridge hare always computer forwards and have non-resided the sta-

general stakes the bus own replaced the engine prevaluation for Orthologianus.

The main players in the clean values of Manertoneous Management Management (that includes a first particular GEOSCO Colonia GEOSCO A All these wild give pool game and include festione to allow you're testing price on your beside and all the conformation of the processing processing the second and the conformation of the conf

good game and registed features to allow you to rather the game to your less than distinction receives, provide you wit waven blant and allow you so backupace if things eight you concerning to glob. On their includes appoint no display all Calobaux Chico of abor includes appoint no display all board, replay the paramonitar, and six different types of game from fall-dismost our mercen mode to problem mode white programs will bely you where magnitude whose problem.



Bridge as a game doors? seem to connect to compare logic as well as dron, probably bottoms articant half of the game is on the andorstanding with your party and the rest in combination of hick, contact hit hilling and a good hidden printers. Understands, the true of Cohonas Rabige 46/LDSS Chank Bridge, Cherol and Golded Bridge (Christian Camedo content hope no similate this and visit up boints. poor substitute for Bridge addicts, who

Old Favourites









defines, edificult and another better define of the Blackers for the hand place of sea and Darkhall Blackers for the hand place of the and Darkhall Blackers for the hand place of the sea of Darkhall Blackers and the sea of Darkhall Blackers and Darkhall Blackers a

Soon trail

A accord game from the excellent Sony Jackson Microgames series is conting none from Origin and is a

umin is no Ogar. A manifer Cybertank that hemistic seed gain. Think's many to have fight.

Think's many hour's gain conventions to create an Domain's gain account more Trained hemistic applications for the control of the control of

d Zouchdari: h Mastertranic 8-35 Rad Street, London EC24 400.

September 1 to Section 1 to September 1 to Septembe





Sprite Library

Kicking off our Sprite Library series, we look at the By Mike Benn

Spring are understoodly over of the

Flexible Sprites

Pre-planning Required

animate fee design would FOR SP = 0 STEP4 POK

7









Pereins of Highli Lark state the action by naking texts Lark state the action by naking texts respect. Starring with a small and fanding a belongere fiding and fanding a miles bracker ride under a brail gibber. Best they faire and the distance and texts to be right. The hand gibber is not fively assimulation to the state of the state of the right. The hand gibber is not fively assimulation when the state of the right. The hand gibber is not fively assimulated when the state of the state of the right. State of the state of the state of the hands he cloudy key frames far to to Ellis the princing minimum. All the option the finishers, require two spitches.

Forms of Flight

DA-DB/218 - Jose DA-DB/218 - Jose DC-DD/229 - Joseph DC-DD/229 - the program will astronatively a fact on a black of data. If you rele that data is the future remember and a 1 after the device number, data is acred in the futureing focus \$2500-65711.

The spoker run from 100 to 225 components to avoid the area \$2

tarring to the right.

18 CA/184-302 Helicoper approaching an tarring to the right.

20 C3/ 193-395 Helicoper blade terring while helicoper blade.

DC-DDV229 - 221 Hang gifter or for govern DE-DE /223-22) Hang gifter or for govern. Getting it all in componishe to avoid the area \$200 traditionally set aside for redding character graphics and to avoid the need of typing in line after line of data. If only one or two sprins are equated then use this formula: General backs, No.1807 + FRE - It data like analyer as which that special backs, Southern a visible that special backs data states.

Homeston on type in the following

CA-OF 200-30 Holocyter to be forming while supter houses leg sight.

CE-05/286-213 Hard glober in go the right.

D6-03/214-215 Hard globe is superior to the right.

destruct. Before running the loads program, you will need to reset the computer and type the following: POKEHAR POKEHAR POKE 193840/NEW and press RETURN. This will trick the computer into variable IE, to the number of data lines you have in your limbed program, look i.

The small basic program Aircraft Display will animate the sprine in both non-expanded and expanded forms on the screen simultaneously. To hold on any sprine order the same

This will trick the computer into edicting that the Basic new starts a 4800 instead of \$000. Load in th

individual sprites to toquirements.

Lister 128

By Kerin Blight

: CHIES code for learning to use

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Listings

Get it right first time with our deluxe program system for the C64.

backplose are too of these bereited with black bloke which send you marrhing around the keyboard for a sakable graphic symbol. You may also have noticed the famor numbers by the side of each law of the lakeley. For do more, h's all part of our easy cetty ad, healend of those natty graphics and trees of countries appear in PRINT

ensenceic, is always contained in square brackets and you'll soon learn to despite their meanings.

For example, [SA] would mean type is a Shifted A, or an acc of spades

[5+2] means hold down the shift key and press the plus key town. It down't take a great leap of logic to sealise that [C+2] means reactly the same thing avorpt that the Commoder key theritors left of the herbourds in held down instead of the shift key. If more than two spoons appear is a

same thing scope that the Commodere key belowed into held herbeards in held down instead of the shift key. If more than two speces appear in maneuest then this soil be priced as \$15°C4] or, exceptionally, \$150°C4]. Translated into Digith this maneuest the procedure of the second prices the specific prices are beginning the second prices are procedured from these or in the latter was held the shift key down.

OPPORT DE CONTROL DOWNSLEFTS.BLUE, F3.C3)

press the cannot key down releacourse left hay free lease, peer less exacted Bi. UE while heldingshows to TRIL. key, press the FS key or feasily held the Commoders key do while pressing the commoders key do while pressing the commoders key do while pressing the commoders to be a while pressing the commoder to be a held to be commoder to the comprise in brown). Always consender that you sho only have a rew of garphics channel on your scenes within a square band on your scenes within a square band

and no commun, unless something this appears:

[\$5](C*)
In this case the two characters sho have a commun between them.

On more occasions [REV T]

and green the number rise is (IAVSON), type the relevant number reversed Tx and then held do CTRL and prox zero (RVSOF). Nest type another quantities make delate it again. Non finish the line a press IETUSN.

A list of these steedal cases is not

pees HETURN.

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WATE COMMODURE december 1907

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38 STUDENTS STATEMENTS STATEMENTS



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VOCTO COMMODORE desertes 1977

DATE PRINT | BV808| (ET13)

TI. (SCORT) ".CEB!T) BED PECT! SCORE PEST! (MODITE, SCORT)53"]" (LEFT!, SCORT)FIRES BORDES DESTYLLOW!" 620 FRIST! (DOME, SMCORT IS '9)

AN . NO YOU WISH TO STOWN

80 E 80	3030 NEWTER-METCHEN 3030 PORCE-STOCK-PRINT", 300 (RESENS ENTERS) 3040 MP-0.7619T (SERE, DORS) 3050 MP-09*1; IFRP-LYTHERILIS		200 99197 TCLK ROSTIZ DC. DE .EX. DE. DE. DEC. DE DO. DE .E .O.S. DC. AT. DE .DOW. LEFTIS. CT C) PCT917 TO 99197 TDOMS. SE DETZYTHE S UNDCTS MRS 200 09392 8,2, TO SEDERT BUBJ EVER C. D. C. DE .E.	10 10 10 10 10 10	UN CODICE TO ADDRESS! COP ESD INCHICAGO JOTHERSED ESD IFON LOROF JOTHERSED ESD IFON JOTHERSED ESD INCHICAGO JOHN JOHN JOHN JOHN JOHN JOHN JOHN JOH
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